

## INTERNATIONAL SEARCH REPORT

International application No

PCT/FR2007/000534

A. CLASSIFICATION OF SUBJECT MATTER  
INV. H01L21/762

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	ALMEIDA ET AL: "Bond formation in ion beam synthesised amorphous gallium nitride" THIN SOLID FILMS, ELSEVIER-SEQUOIA S.A. LAUSANNE, CH, vol. 343-344, April 1999 (1999-04), pages 632-636, XP005021022 ISSN: 0040-6090 page 633 - page 635; figures 2,3 ----- -/-	1-32

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

## \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"Z" document member of the same patent family

Date of the actual completion of the international search

12 novembre 2007

Date of mailing of the international search report

22/11/2007

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx 31 651 epo nl  
Fax (+31-70) 340-3016

Authorized officer

Hedouin, Mathias

# INTERNATIONAL SEARCH REPORT

International application No

PCT/FR2007/000534

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	MATSUO J ET AL: "Abnormal solid solution and activation behavior in Ga-implanted Si(100)" APPLIED PHYSICS LETTERS USA, vol. 51, no. 24, 14 December 1987 (1987-12-14), pages 2037-2039, XP002404174 ISSN: 0003-6951 page 2038, column 2 - page 2039, column 2; figures 2-6	1-32
A	JP 58 031519 A (TOKYO SHIBAURA ELECTRIC CO) 24 February 1983 (1983-02-24) abstract; figures A-C	1-32
A	JONES K S ET AL: "Enhanced elimination of implantation damage upon exceeding the solid solubility" JOURNAL OF APPLIED PHYSICS USA, vol. 62, no. 10, 15 November 1987 (1987-11-15), pages 4114-4117, XP002404175 ISSN: 0021-8979 cited in the application abstract; figures 1,3	1-32

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/FR2007/000534

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
JP 58031519	A	24-02-1983	JP	1026171 B		22-05-1989
			JP	1543508 C		15-02-1990